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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

07/01/2002

AGILENT TECHNOLOGIES Legal Department, 51UPD Intellectual Property Administration P. O. Box 58043 Santa Clara, CA 95052-8043

EXAMINER LANEAU, RONALD				
2674	345-158000			

DATE MAILED: 07/01/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/691,318	10/18/2000	Gary B. Gordon	10951105-6	2923

TITLE OF INVENTION: METHOD AND SYSTEM FOR TRACKING ATTITUDE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$0	\$1280	10/01/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

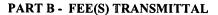
A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

appropriate. All further correspondence including the Patent, advance orders and notificat	ion of maintenance fees will be mailed to the current correspondence address as
indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new	w correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for
maintenance fee notifications.	
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)	Note: A certificate of mailing can only be used for domestic mailings of the
7590 07/01/2002	Fee(s) Transmittal This certificate cannot be used for any other

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accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the

office States Postal Service with sufficient postage for first class man invelope addressed to the Box Issue Fee address above, or being factarismitted to the USPTO, on the date indicated below.	
(Deposite	or's name)
(6	Signature)
	(Date)

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09/691,318	10/18/2000	Gary B. Gordon	10951105-6	2923

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nonprovisional	NO	\$1280	\$0	\$1280	10/01/2002
EXAMIN	NER	ART UNIT	CLASS-SUBCLASS		
LANEAU, R	ONALD	2674	345-158000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). □ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. □ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47) attached. Use of a Customer Number is required.		2. For printing on the patent for the names of up to 3 registered or agents OR, alternatively, (2) single firm (having as a men attorney or agent) and the nar registered patent attorneys or ag is listed, no name will be printed.	patent attorneys the name of a ber a registered mes of up to 2 ents. If no name		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or cate	ries (will not be printed on the patent)	up entity 🚨 government	
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):		
☐ Issue Fee	☐ A check in the amount of the fee(s) is enclosed.		
☐ Publication Fee	☐ Payment by credit card. Form PTO-2038 is attached.		
☐ Advance Order - # of Copies	☐ The Commissioner is hereby authorized by charge the required fee(s), or cre Deposit Account Number(enclose an extra copy of this fo	edit any overpayment, to	

(Authorized Signature)

(Date)

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, D.C 20231.

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09/691,318	10/18/2000	Gary B. Gordon	10951105-6	2923
75	90 07/01/2002		EXAMIN	ER
AGILENT TECH	NOLOGIES		LANEAU, R	ONALD
Legal Department, Intellectual Propert			ART UNIT	PAPER NUMBER
P. O. Box 58043			2674	
Santa Clara, CA 95052-8043			DATE MAILED: 07/01/2002	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 83 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 83 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

	Application No.	Applicant(s)
Al-4' C All	09/691,318	GORDON, GARY B.
Notice of Allowability	Examiner	Art Unit
	Ronald Laneau	2674
The MAILING DATE of this communication apperation apperation (a) all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 4/5/02. 2. The allowed claim(s) is/are 17, 19, 20, and 22 now renumed 3. The drawings filed on are accepted by the Examined 4. Acknowledgment is made of a claim for foreign priority under the communication of the communication and the communication are supplied to the communication and the communication are accepted by the Examined Acknowledgment is made of a claim for foreign priority under the communication and the communication are accepted by the Examined Acknowledgment is made of a claim for foreign priority under the communication are accepted by the Examined Acknowledgment is made of a claim for foreign priority under the communication are communication and the communication are accepted by the Examined Acknowledgment is made of a claim for foreign priority under the communication are communication are accepted by the Examined Acknowledgment is made of a claim for foreign priority under the communication are communication.	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to and MPEP 1308. bered as 1-4. r. ler 35 U.S.C. § 119(a)-(d) or (f).	olication. If not included will be mailed in due course. THIS
 Certified copies of the priority documents have 	been received.	
 Certified copies of the priority documents have Copies of the certified copies of the priority documents and the priority documents of the priority documents. Certified copies not received: Acknowledgment is made of a claim for domestic priority unit (a) The translation of the foreign language provisional and the priority documents. 	cuments have been received in this render 35 U.S.C. § 119(e) (to a provision	national stage application from the
6. Acknowledgment is made of a claim for domestic priority un	nder 35 U.S.C. §§ 120 and/or 121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of 7. A SUBSTITUTE OATH OR DECLARATION must be submits INFORMAL PATENT APPLICATION (PTO-152) which gives reas 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspers	this application. THIS THREE-MON itted. Note the attached EXAMINER on(s) why the oath or declaration is	TH PERIOD IS NOT EXTENDABLE 'S AMENDMENT or NOTICE OF deficient.
1) ⊠ hereto or 2) ☐ to Paper No		
(b) including changes required by the proposed drawing of		een approved by the Examiner.
(c) ☐ including changes required by the attached Examiner	s Amendment / Comment or in the C	Office action of Paper No
Identifying Indicia such as the application number (see 37 CFR 1 of each sheet. The drawings should be filed as a separate paper		
9. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT FOR T	sit of BIOLOGICAL MATERIAL n HE DEPOSIT OF BIOLOGICAL MA	nust be submitted. Note the TERIAL.
Attachment(s)		
1⊠ Notice of References Cited (PTO-892) 3⊠ Notice of Draftperson's Patent Drawing Review (PTO-948) 5□ Information Disclosure Statements (PTO-1449), Paper No 7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material	4☐ Interview Summa 6☐ Examiner's Ame 8⊠ Examiner's State 9☐ Other RIC	Patent Application (PTO-152) And PTO-413), Paper No Property Comment The party Co

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Allowable Subject Matter

1. Claims 17, 19, 20 and 22 are allowed now renumbered as 1-4 in view of applicant's arguments in the appeal brief.

The closest prior art, Durbin et al (6,003,773), discloses conventional rectangular photosensor elements, an optical sensing area that represents the result of the use of a typical solid state video imaging array with a lens system that provides a magnification ratio of ten to one. Durbin et al fail to anticipate or render obvious or even suggest:

An arrangement of a sensor and optics comprising:

As per claims 17 and 19, an array having a shape to achieve compensation of said curvilinear distortion, including having arcuate edges to establish said compensation;

wherein said photosensors are disposed in a plurality of columns and a plurality of rows and wherein said photosensors combine to define an optical axis for said array, adjacent columns being spaced apart by an arcuate boundary, with curvatures of said arcuate boundaries increasing with departure from said optical axis.

As per claims 20 and 22, an array having a shape to achieve compensation of said curvilinear distortion, including having a plurality of arcuate outer edges to establish said compensation; said photosensors being varied dimensionally to define said curvilinear shape, said curvilinear shape being aligned relative to said curvilinear distortion to introduce a physical distortion that offsets said optical curvilinear distortion;

wherein said photosensors are disposed in a plurality of columns and a plurality of rows and wherein said photosensors combine to define an optical axis for said array, adjacent columns Application/Control Number: 09/691,318

Art Unit: 2674

being spaced apart by an arcuate boundary, with curvatures of said arcuate boundaries increasing

with departure from said optical axis.

2. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ronald Laneau whose telephone number is 703-305-3973. The

examiner can normally be reached on Monday-Thursday from 8:00 AM to 6.00 PM or via email:

ronald.laneau@uspto.gov.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richard Hierpe can be reached at 703-305-4709.

4. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,

Arlington, VA, Sixth Floor (Receptionist).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Ronald Laneau Examiner Art Unit 2674

> RICHARD HJERPE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

rl June 14, 2002